

Application No. 09/966,873
Amendment dated October 25, 2005
Reply to Office Action of July 25, 2005

Docket No.: 30521/601A

AMENDMENTS TO THE CLAIMS

This listing of the claims will replace all prior versions, and listings, of claims in the application:

Listing of the claims:

1-2 (canceled)

3. (currently amended) A directional microphone system comprising:

first, second and third omni-directional microphones, each of the microphones for converting an audible signal to a corresponding electrical signal;

means for converting the corresponding electrical signal of each of the microphones into a single, multi-order directional signal;

means for converting the corresponding electrical signal of two of the microphones into a single, first-order directional signal;

a high pass filter for filtering the multi-order directional signal;

a low pass filter for filtering the first-order directional signal; and

means for summing the multi-order directional signal and the first order directional signal.

4. (original) The system of claim 3 consisting of three microphones.

5. (original) The system of claim 3 including means for adjusting the relative gain of the first, second and third microphones.

6. (original) The system of claim 5 wherein the magnitude adjusting means adjusts the relative gain of the first, second and third microphones such that their magnitudes are substantially equal.

7-9. (canceled)

10. (original) The system of claim 3 wherein the first-order directional signal forms a hyper-cardioid pattern.

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11. (original) The system of claim 3 wherein the first-order directional signal forms a cardioid pattern.

12-13. (canceled)

14. (original) A directional microphone system comprising:

first, second and third omni-directional microphones, each of the microphones for converting an audible signal to a corresponding electrical signal;

means for adjusting the relative gain of the first, second and third microphones such that the magnitudes are substantially equal;

means for converting the corresponding electrical signal of each of the microphones into a single multi-order directional signal;

means for converting the corresponding electrical signal of two of the microphones into a single, first-order directional signal;

a high pass filter for filtering the multi-order directional signal;

a low pass filter for filtering the first-order directional signal; and

means for summing the filtered multi-order directional signal and the filtered first order directional signal.

15 - 16. (canceled)

17. (currently amended) A directional microphone system comprising:

means for creating a single multi-order directional signal;

means for creating a single, first-order directional signal;

a high pass filter for filtering the multi-order directional signal;

a low pass filter for filtering the first-order directional signal; and

means for summing the multi-order directional signal and the first order directional signal.

18. (original) The system of claim 17 consisting of three omni-directional microphones.

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19. (original) The system of claim 18 including means for adjusting the relative gain of the first, second and third microphones.

20. (original) The system of claim 19 wherein the magnitude adjusting means adjusts the relative gain of the first, second and third microphones such that their magnitudes are substantially equal.

21-25. (canceled)

26. (original) A directional microphone system comprising:
means for providing a first order signal representing a first order pattern;
means for low pass filtering the first order signal;
means for providing a second order signal representing a second order pattern;
means for high pass filtering the second order signal; and
means for summing the low pass filtered first order signal and the high pass filtered second order signal.

27. (original) A method of providing a directional microphone signal comprising:

providing a first order signal representing a first order pattern;
low pass filtering the first order signal;
providing a second order signal representing a second order pattern;
high pass filtering the second order signal; and
summing the low pass filtered first order signal and the high pass filtered second order signal.

28. (original) A directional microphone system comprising:
means for providing a first order signal representing a first order pattern;
means for low pass filtering the first order signal;
means for providing a multi-order signal representing a multi-order pattern;
mans for high pass filtering the multi-order signal; and

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means for summing the low pass filtered first order signal and the high pass filtered multi-order signal.

29. (original) A method of providing a directional microphone signal comprising:

providing a first order signal representing a first order pattern;

low pass filtering the first order signal;

providing a multi-order signal representing a multi-order pattern;

high pass filtering the multi-order signal; and

summing the low pass filtered first order signal and the high pass filtered multi-order signal.

30-31. (canceled)